

**CASIO**  
PROJECTORS

5 YEAR  
10,000  
HOUR  
WARRANTY

**HD**  
ready

MERCURY  
FREE  
LIGHT SOURCE

**CONSTANT BRILLIANCE**



**THE ONLY PROJECTOR BRAND  
WITH A COMPLETE RANGE OF  
LAMP-FREE  
PROJECTORS**

[casio.co.uk/projectors](http://casio.co.uk/projectors)

## Key features and benefits

# Discover the benefits of Casio lamp-free projectors

Casio's lamp-free projection range has a model suitable for almost every application including classrooms, boardrooms, exhibitions and retail. Here you can understand the true benefits of Casio's lamp-free technology and why Casio is the market leader for Solid-state projection:

### Lamp-free

Casio projectors use Laser & LED Hybrid technology instead of lamps, not only improving environmental credentials but also reducing power consumption

### Easy to install

The Casio A and M Series are the ideal replacement projectors as they have a wide lens ratio, meaning there is no need to move existing brackets/ mounts

### Mercury-free

No mercury is featured in the projectors, making them safer for any user

### Intelligent Brightness Control

All Casio projectors feature Intelligent Brightness Control that adjusts brightness levels according to the ambient light in the room which reduces power consumption whilst ensuring that the projector is always bright and vivid

### Filter-free

These projectors have no lamps and do not require filters, which means there are no components to regularly change/ replace

### Low TCO

When purchasing a Casio projector there is only one cost as there are no lamps or filters to change throughout the lifetime of the projector

### Low power consumption

The Laser & LED Hybrid light source uses less power than a conventional projector lamp and also has quick on/off functions saving you time and money over the lifetime of the projector

### Advanced connectivity

Casio projectors offer a host of different connectivity options and are all HD Ready

### Low maintenance

With no lamps to change and no filters to replace the Casio range requires only minimal maintenance. This reduces room downtime ensuring maximum productivity

### 5 year warranty

All Casio projectors come with a 5 year/ 10,000 hour on-site warranty\* on both hardware and light offering users total peace of mind



\*Whichever comes first and upon registration.  
Visit: [www.casio.co.uk/projectors](http://www.casio.co.uk/projectors) to register

## Casio Projector Range

# Ultra Short Throw Projector

ALL EYES ON  
**UST**

*Ideal for both replacement and new-build projects*

Casio's new lamp and mercury-free Ultra Short Throw projector can be mounted close to the wall and create large, powerful presentations even in smaller rooms.

The main benefit of Ultra Short Throw projection is that it virtually eliminates shadowing on the screen allowing for more creative and engaging presentations.

The Ultra Short Throw model offers brightness of 3,100 ANSI lumens – more than enough for even a large, bright classroom or meeting room and features WXGA resolution with XGA compatibility option.

- Lamp-free Laser & LED Hybrid Light Source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- 3,100 ANSI lumens
- WXGA resolution with XGA compatibility option
- Intelligent Brightness Control
- Free projector fleet management software available
- Extensive connectivity options, including HDMI, WLAN, USB

Models	ANSI lumens	Resolution	USB/WLAN
XJ-UT310WN	3,100	WXGA (16:10)	USB/WLAN



**FIVE YEAR  
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## Green Slim Series

*The ideal replacement projector*

The Green Slim series uses the cost-effective, environmentally-friendly Casio Laser & LED Hybrid light source and is the perfect choice for those looking to upgrade their existing installed projectors. An industry-leading 2x optical zoom means that a Green Slim model will replace almost any installed projector seamlessly, without having to change the ceiling brackets. This helps to keep budgets under control and disruption to a minimum.

- Lamp-free Laser & LED Hybrid light source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- Up to 3,000 ANSI lumens
- XGA and WXGA resolution
- 2x optical zoom
- Extensive connectivity options, including HDMI, LAN, WLAN and USB (selected models)
- Quick start and stop

The Green Slim series offers brightness levels up to 3,000 ANSI lumens, more than enough for even a large, bright meeting room. All models have HDMI connectivity, enabling the presentation of HD content. They're light and portable, so can easily be moved between rooms if required.

Models	USB/WLAN	ANSI lumens	Resolution
XJ-A257	Yes	3,000	WXGA
XJ-A247		2,500	
XJ-A147		2,500	
XJ-A252	No	3,000	WXGA
XJ-A242		2,500	
XJ-A142		2,500	XGA
XJ-A132		2,000	



NEW



**FIVE YEAR  
10,000 HOUR  
WARRANTY**

## Case Study – Yates's

### Bedford's top nightspot transforms its entertainment experience with Casio Green Slim projectors.

Yates's Bedford is a bar, nightclub and restaurant with a capacity of 500, making it one of the town's busiest nightspots.

Visitors are drawn to the pub's vibrant welcoming atmosphere and live televised sporting events. To provide the best-possible viewing experience of sports and music channels, Yates's Bedford had previously used four traditional lamp-based projectors, each areas hosting non-stop entertainment.

Gary Voysey is the General Manager of Yates's Bedford and has overall responsibility for providing his customers with a great pub experience. He takes up the story: ***"Our continued use of projectors in Yates's Bedford goes far beyond providing background entertainment. Regulars and visitors alike are nothing short of passionate about our screened events, so our ongoing schedule of live events is, and will continue to be, a key attraction."***

Gary asked sound and visual media provider PlayNetwork to suggest new, more cost-efficient and greener projector technologies — and that's where Casio comes in. Casio's XJ-A141 models, with Casio's own proprietary Laser & LED Hybrid technology, eliminate maintenance costs by using a solid-state lamp-free light source, providing a crisp, high quality image regardless of ambient lighting conditions.

*"We are open from 10am till 3am each day, so the demands on our AV are intensive. Projectors are running all day, every day. We absolutely needed to install reliable, low-maintenance projectors that deliver crystal sharp images, day and night."*

With the new Casio XJ-A141, no lamp changes are required and its Laser & LED Hybrid technology does not suffer from degradation in light power or image quality. The intense 2,500 lumen brightness of the Casio models will continue for its usable life. This also eliminates the need for Yates's Bedford to replace each projector's lamp every six months — a cost saving of around £200 each, plus an external call out charge. As a result, Gary will save around £2,000 per annum.

Installation of the projectors commenced in May 2011 and operating time has already surpassed 12,000 hours.

As with all of the Yates's chain, Yates's Bedford is keen to provide a safe operating atmosphere for both staff and public. Gary elaborates: *"The Casio Green Slim projectors are so easy to operate that we can now do the projector maintenance in-house. This is readily achieved with the Casio Green Slims*

*as these projectors are filter-free and require minimal cleaning, and are also mercury-free."*

Eliminating mercury within each lamp is in line with the more open, greener, family pub environment Yates's Bedford encourages. In addition, the pub is driving down its carbon footprint; cutting electricity consumption by switching to alternative cleaner devices without affecting the customer experience.

The four Casio projectors are ceiling mounted, weigh-in at a lightweight 2Kg and have a discreet A4-sized footprint. Using the Casio Green Slims, the pub can be flexible about room layouts — Gary can elect to project directly onto walls, or on to a pull-down screen.

Gary summarises the Casio Laser & LED Hybrid projector experience: *"It has been a total win-win, in fact the difference between the old projectors and the new Casio models has been like going from black and white television to colour. From a visitor point of view, the Casio projectors have provided total 'wow' feedback, with no haze, and crystal-clear images. From a management perspective, they've been brilliant: they've driven down costs and power consumption and reduced maintenance time."*

***"From a visitor point of view, the Casio projectors have provided total 'wow' feedback, with no haze, and crystal-clear images. From a management perspective, they've been brilliant: they've driven down costs and power consumption and reduced maintenance time."***



# Signature Series

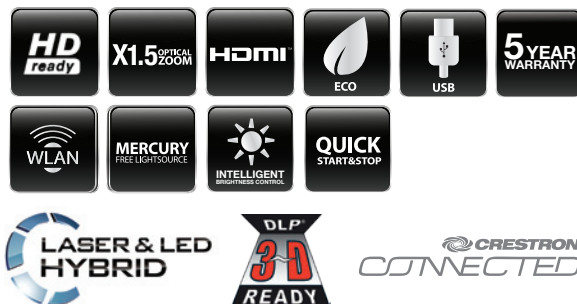
*A versatile range of projectors for classrooms and meeting rooms*

The Signature series offers versatile projection solutions using the cost-effective, environmentally-friendly Casio Laser & LED Hybrid light source. Thanks to Intelligent Brightness Control, the light output is automatically adjusted according to the levels of ambient light. This minimises power consumption – and running costs – by ensuring that the brightness delivered is no more than actually required. The projectors also deliver all of the key benefits associated with

the unique Casio Laser & LED Hybrid light source: excellent colour performance with no deterioration of brightness, a 20,000 hour life expectancy, quick start & stop, and the elimination of expensive replacement lamps. The nine models in the Signature series offer a range of connectivity options, including RGB, HDMI, LAN, WLAN & USB and can be used in any orientation offering complete flexibility for more bespoke applications.

- Lamp-free Laser & LED Hybrid light source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- Up to 3,000 ANSI lumens
- XGA and WXGA resolution
- Intelligent Brightness Control
- 3D Ready
- Free projector fleet management software available (LAN models only)
- Extensive connectivity options, including HDMI, LAN, WLAN, USB and S-Video (selected models)

Models	USB/WLAN	ANSI lumens	Resolution
XJ-M256	Yes	3,000	WXGA
XJ-M246		2,500	
XJ-M156		3,000	XGA
XJ-M146		2,500	
XJ-M251	No	3,000	WXGA
XJ-M241		2,500	
XJ-M151		3,000	XGA
XJ-M141		2,500	
XJ-M131		2,000	



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## Case Study – St Georges Academy

### Leading Maths and Computing Academy, St Georges, adopts Laser & LED Hybrid Projectors throughout the Academy:

*"One of the very few products that I would happily endorse:"* Jamie Hirst – ICT Services Director, St George's Academy.

**New Casio XJ-M Signature range provides enlightened learning experience whilst dramatically decreasing costs:**

St George's Academy is a thriving, specialist academy in the heart of Lincolnshire excelling in the provision of Maths and Computing to over 2,200 students across two sites in Sleaford and Ruskington.

In the classroom, modern and emerging technologies take a key role in teaching methods with useful innovation being key to life at the Academy.

Jamie Hirst is the ICT Services Director for the Academy operating in a team of seven and is responsible for recommending and procuring integrated ICT to positively enrich the classroom experience. As such, when a Casio model of a new Laser & LED Hybrid projector appeared back in the summer of 2010, and having worked with lasers previously, Jamie knew that what had been announced was nothing short of revolutionary enabling the move away from the resource draining conventional lamp-based projectors. He elaborates. *"The minute you switch on a conventional bulb based projector, degradation in the brightness of lumens starts.*

*Prior to the new Casio projectors being deployed, we not only had to factor in the high cost of new bulbs every 3 years, at the cost of £200 each, we also had to consider the ongoing maintenance cost of cleaning out filters on a monthly basis, which is no longer required with the Casio projectors."*

Jamie contacted Casio and the first Casio XJ-A Green Slim model was dispatched. Such was the positive response when in operation, that an order for the remaining five rooms in the Language Centre followed immediately.

**It made sound financial and teaching sense to deploy Laser & LED Hybrid projectors throughout the Academy and the decision was made to replace all the projectors. Casio had enhanced the model range further with the arrival of the new Casio XJ-M140.**

Each Casio XJ-M140 arrived with a no-quibble 5 year or 10,000 hour hardware and light source warranty, which Jamie envisages will last the Academy many, many years before each projector needs replacing.

The remaining units were installed in all the Academy's classrooms throughout the summer vacation and their lightweight frame slotted

seamlessly into the existing ceiling mounted brackets.

When the Academy returned in the Autumn term, staff instantly reported a marked difference in their teaching experience. Lectures were no longer interrupted with staff fiddling with blinds and adjusting projector settings in order that the whole class could see the lesson properly.

As you would expect in such a forward thinking environment, the Academy has a strong Green Policy and strives wherever possible to reduce energy and carbon overheads, demonstrating efficiencies. Part of the Signature Range, the Casio XJ-M140 boasts 75% reduction in energy costs, using less than 1 watt of electricity in standby mode and contains no mercury for disposal considerations.

Jamie concludes. *"We stand proud of our heritage of deploying really useful technology that produces an enhanced learning experience for the children and staff and give us significant reductions in the cost of ownership deploying a far superior product. As a technology Academy, we stand extremely proud of this installation and technology choice and it is a solution I am happy to put my name against."*

***"We stand proud of our heritage of deploying really useful technology that produces an enhanced learning experience for the children and staff and give us significant reductions in the cost of ownership deploying a far superior product."***



## Short Throw Series

*Big screen performance in small spaces*

The XJ-ST145 & XJ-ST155 deliver a short throw projection solution using the cost-effective, environmentally-friendly Casio Laser & LED Hybrid light source. Perfect for use with whiteboards in classrooms or in meeting rooms where space is limited, the Short Throw models can achieve a 60" screen from just 80cm away from the display surface.

Both models are easily re-fitted to existing short throw systems where projector replacement is required. Their ability to be connected to a network means that they can be monitored and controlled from a remote location, allowing users to centralise the management of their projector fleet.

- Lamp-free Laser & LED Hybrid light source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- 60" screen from just 80cm
- Intelligent Brightness Control
- 3D Ready
- Free projector fleet management software available
- Extensive connectivity options, including HDMI, LAN, WLAN and USB
- Short Throw series can be retrofitted to existing interactive solutions.

Contact your reseller or distribution partner for bespoke bracket options

Models	ANSI lumens	Resolution	USB/LAN/WLAN
XJ-ST145	2,500	XGA (4:3)	Yes
XJ-ST155	3,000	XGA (4:3)	Yes



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## Case Study – United Learning

United Learning, nationwide advisor for 30,000 children across UK Academies' & Independent Schools, recommends Casio's revolutionary Laser & LED Hybrid projector range:

***New Casio Laser & LED Hybrid lampless technology re-invigorates classroom learning and dramatically reduces cost of ownership for education.***

United Learning offers best advice on provision of a quality infrastructure to 30,000 schoolchildren across the UK. To this end, United Learning Technologies group ethos is to train and facilitate their 2,500 teachers to enable the most out of new technology to positively enrich the classroom experience.

Learning Technologies Team Leader Geoff Gould has been an ongoing advocate of deployment of worthy audio visual equipment technology to education establishments for over ten years. He takes up the story. *"Since 1999 we have had a policy of having LCD projectors to accompany our Interactive Whiteboards. However, whilst LCD projectors were still a mile ahead of the previous OHP projection technology, distinct quality issues were becoming apparent after just a year or so of use."*

In the classroom, lamp lumen degradation was the first to go; with lamps starting to significantly dim after 15-18 months of use. In addition, ongoing maintenance was required with filter cleaning recommended on a monthly basis. Ongoing lamp replenishment was another constant drain. With most schools holding a variety of LCD projectors all with varying lamp types, academies were required to keep a rolling stock of replacement lamps on premises.

Environmental factors within the classroom itself also needed to be considered when using the LCD projectors. Blinds to divert natural daylight often needed to be darkout or even blackout quality and lights had to be switched off to stop incumbent light pollution. Teachers were also concerned that these conditions were less than ideal for those pupils who may have been susceptible to eye strain.

Teachers, school AV Teams and IT departments turned to the experts at United Learning for advice, despondent that even after just the second year of use the LCD projectors were becoming sub-optimal.

United Learning contacted their AV partner, IDNS, who suggested that lamp-free LED technology should be evaluated as an alternative technology. Casio's new Laser & LED Hybrid range was suggested and following a demonstration, Geoff and the Team at United Learning were impressed by the immediate light vibrancy on offer.

Communications to all of the United Learning's Network Managers followed containing recommendations as to why individual establishments would benefit, with proof points provided by Swindon Academy.

**A year down the line, the Casio Laser & LED Hybrid projector ranges are firmly entrenched across the UK's classrooms, with over 10 of United Learning's establishments running the transforming Casio LED projectors. That's over 700 units, with more being installed as budget allow each week; their compact size slotting into the existing ceiling mounts and their inbuilt auto configuration quickly finding the optimum viewing experience.**

In terms of ROI vs. initial capital outlay per unit, Geoff has conducted some interesting findings with a five year cost of ownership (TCO) plan for traditional LCD vs. Casio's Laser & LED Hybrid projectors. He comments on his findings: *"A traditional lamp-based LCD projectors' TCO over 5 years equates to around £1,200 (including projector, sourcing & installing 1 replacement lamp, arranging 1 offsite specialist deep clean & ongoing onsite maintenance 6 times a year); vs. Casio's projectors that retails at under £700 and simply has no further overhead. It's not just the financial considerations that stand out here. It's the fact that there is no downtime or hassle factor with the Casio Laser & LED Hybrid projectors."*

For total peace of mind, Geoff notes that Casio uniquely back each unit with a 5 year, 10,000 hour no-quibble guarantee.

***"It's not just the financial considerations that stand out here. It's the fact that there is no downtime or hassle factor with the Casio Laser & LED Hybrid projectors."***



## Pro Series

### *High brightness projectors for installation*

The Pro series offers high brightness projection solutions using the cost-effective, environmentally-friendly Casio Laser & LED Hybrid light source. Perfect for large meeting rooms and school halls, models in the Pro series deliver up to 4,000 ANSI lumens with consistent brightness and a 20,000 hour life expectancy.

Selected models can also be connected to a network, which means they can be monitored and controlled from a remote location, allowing users to centralise the management of their projector fleet.

- Lamp-free Laser & LED Hybrid light source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- Bright up to 4,000 ANSI lumens performance
- Intelligent Brightness Control
- XGA and WXGA resolution
- 3D Ready
- Free projector fleet management software available (LAN models only)
- Extensive connectivity options, including HDMI, LAN, WLAN and USB (XJ-H1650)

Models	ANSI lumens	Resolution	USB/LAN/WLAN
XJ-H1600 / XJ-H1650	3,500	XGA (4:3)	XJ-H1650 only
XJ-H1700 / XJ-H1750	4,000	XGA (4:3)	XJ-H1750 only
XJ-H2600 / XJ-H2650	3,500	WXGA (16:10)	XJ-H2650 only



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## Case Study – London School of Economics

The World's Leading Social Sciences University, The London School of Economics, selects Casio Lamp-free Projection across 80 lecture theatres.

***Migration offers freedom from maintenance and alleviates lamp replacement costs in an 'install and forget' economically driven rollout.***

The London School of Economics (LSE) is a world-renowned public research university specialised in social sciences. As one of the UK's most popular and selective universities, Dan Roberts, LSE's AV & Teaching Spaces Manager, facilitates AV for an ongoing intensive lecture programme. In an effort to decrease both the maintenance window and cost of ownership by changing traditional lamp based projectors throughout the LSE lecture theatres, Dan evaluated Casio's innovative new Laser & LED Hybrid/Lamp-free light source designed for demanding environments. Impressed the quality of light up to 4000 Lumens, Dan presented the business case including strong arguments for reduced maintenance time, zero costs of bulb replacements and a reduction in carbon footprint through lower running costs.

Dan comments. *"On paper, building a strong economic business case using lamp-free projection was relatively straightforward. With former traditional projectors, we were spending over £300 per replacement lamp, frequently, twice a year. Add that across 80 theatres, together with the overhead of ongoing out-of-hours maintenance to stem degradation and maintain optimal viewing for students and you can see why the Casio Pro series was a welcome and interesting technology advance for us."*

Now fully installed as standard across the University, the Casio Pro Series robustly offers optimal viewing of lectures with high colour resolution and high definition image rendition. Lecture rooms vary widely, both in capacity and in natural light filtration. Regardless of whether serving 15 or 90 students, the Casio Pro Series fulfils brilliant and natural retention of colours and sharpness of images right across the room. Its integrated Intelligent Brightness Control automatically and seamlessly adjusts the light output according to conditions for optimal staging, even in bright sunlight conditions.

With integrated QuickStart and Power Down functionality, maximising lecture time has been a positive experience, as the Casio Pro Series kicks straight into power-on mode; filling the room with brightness and facilitating an immediate and attentive start to lectures. At the end of each lecture, reassuringly, no cool down period is required either. Dan reports:-

*"You can imagine delivering an important lecture in front of 90 eagerly awaiting students, only to have the start hindered with a slow to respond projection device. Some lecturers would try and overcome the wake up time lag, by leaving the projector switched on to assist following lectures, but that only added to the lamp usage*

*times and increased the cost of ownership."*

LSE remains a key facilitator of carbon footprint reduction whilst eradicating the use of potentially harmful substances throughout the University. Their Sustainable Estates group takes an active role in improving the University's environmental credentials. Initial stats on the Casio Pro Series immediately illustrated a 100% mercury-free install together with a significant green impact on energy efficiency translating to lower energy overheads. The integrated light source within the Casio Pro Series demands far less power than fan-assisted traditional projectors. Examining the cost of electricity per kWh, in standby mode, each Casio Pro series consumes just 0.4W and 250W in eco on mode. Further eco design consideration emits from the integrated Intelligent Brightness Control – seamlessly minimising power consumption by ensuring the brightness delivered is optimised to suit the room.

Dan concludes on the install: *"We have been using the Casio Pro Series for over three years now, satisfactorily decreasing LSE downtime, TCO and ultimately saving AV budget and resources."*

[www.casio.co.uk/projectors](http://www.casio.co.uk/projectors)  
[www.lse.ac.uk](http://www.lse.ac.uk)

***"On paper, building a strong economic business case using lamp-free projection was relatively straightforward. With former traditional projectors, we were spending over £300 per replacement lamp, frequently, twice a year."*** ”

Model			GREEN SLIM SERIES				SIGNATURE SERIES		
			XJ-A132	XJ-A142, XJ-A147	XJ-A242, XJ-A247	XJ-A252, XJ-A257	XJ-M131	XJ-M141, XJ-M146	XJ-M142, XJ-M147
Technology			XGA 0.55" DLP® chip	XGA 0.55" DLP® chip	WXGA 0.65" DLP® chip	WXGA 0.65" DLP® chip	XGA 0.55" DLP® chip	XGA 0.55" DLP® chip	XGA 0.55" DLP® chip
Light Source			Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid
Life Expectancy			20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours
Brightness (ANSI Lumens)			2000	2500	2500	3000	2000	2500	3000
Intelligent Brightness Control			Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)
Contrast Ratio			1800:1	1800:1	1800:1	1800:1	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)
Native Resolution			XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280x800 pixels)	WXGA (1280x800 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)
Max Signal Resolution			UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+
Lens	Standard zoom		2x optical zoom (electronic)	2x optical zoom (electronic)	2x optical zoom (electronic)	2x optical zoom (electronic)	1.5x optical zoom (manual)	1.5x optical zoom (manual)	1.5x optical zoom (manual)
	Focus		Electronic	Electronic	Electronic	Electronic	Manual	Manual	Manual
	Offset		50%	50%	33%	33%	50%	50%	50%
Fan Noise			35dB (default)	35dB (default)	35dB (default)	35dB (default)	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB
Keystone Correction (Vertical)			+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)
Screen Size (diagonally)			15 - 300"	15 - 300"	18 - 300"	18 - 300"	30 - 300"	30 - 300"	30 - 300"
Throwing Distance	60" screen		1.7m to 3.4m	1.7m to 3.4m	1.4m to 2.8m	1.4m to 2.8m	2.0m to 3.0m	2.0m to 3.0m	2.0m to 3.0m
	100" screen		2.8m to 5.6m	2.8m to 5.6m	2.4m to 4.8m	2.4m to 4.8m	3.4m to 4.9m	3.4m to 4.9m	3.4m to 4.9m
Throw Ratio			1.4 - 2.8 : 1	1.4 - 2.8 : 1	1.15 - 2.3 : 1	1.15 - 2.3 : 1	1.64 - 2.46 : 1	1.64 - 2.46 : 1	1.64 - 2.46 : 1
Inputs	Computer	Input	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)
		Output	-	-	-	-	-	-	-
	Digital input		1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)
	Video		1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)
			-	-	-	-	1 x S-Video	1 x S-Video	1 x S-Video
	Component video		Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin
	Audio	Input	-	-	-	-	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack
			-	-	-	-	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1
		Output	From HDMI input only	From HDMI input only	From HDMI input only	From HDMI input only	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack
	RS-232C serial		YK-60 (optional accessory)	YK-60 (optional accessory)	YK-60 (optional accessory)	YK-60 (optional accessory)	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub
	WLAN		-	XJ-A147 only	XJ-A247 only	XJ-A257 only	-	XJ-M146 only	XJ-M147 only
	LAN terminal		-	-	-	-	-	1 x RJ-45 (XJ-M146 only)	1 x RJ-45 (XJ-M147 only)
	USB		-	1 x USB type A (XJ-A147 only) Micro-USB type B, Logo transfer/ Firmware update (XJ-A147 only)	1 x USB type A (XJ-A247 only) Micro-USB type B, Logo transfer/ Firmware update (XJ-A247 only)	1 x USB type A (XJ-A257 only) Micro-USB type B, Logo transfer/ Firmware update (XJ-A257 only)	-	1 x USB type A (XJ-M146 only) Micro-USB type B, USB display/Data transfer (XJ-M146 only) Micro-USB type B, Logo transfer/ Firmware update (XJ-M146 only)	1 x USB type A (XJ-M147 only) Micro-USB type B, Logo transfer/ Firmware update (XJ-M147 only)
	Interactive pointing		-	-	-	-	-	-	-
Speaker			1W	1W	1W	1W	5W	5W	5W
Instant Off			Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time To Full Brightness	Max		8 secs	8 secs	8 secs	8 secs	5 secs	5 secs	5 secs
Power Consumption	Eco Off		155W	155W	165W	165W	165W	165W	180W
	Eco On Level 1		115W	115W	120W	120W	135W	135W	140W
	Standby		0.14W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W
Colour			White	White	White	White	White	White	
Dimensions (wxdhxd) mm			297x43x210	297x43x210	297x43x210	297x43x210	311 x 244 x 82	311 x 244 x 82	311 x 244 x 82
Weight			2.3kg	2.3kg	2.3kg	2.3kg	3.9kg	3.9kg	3.9kg
Box Contents			Wireless Remote Control (YT-130) RGB Cable, Wireless Adapter (USB models only), Power Cable, Soft Carry Case, User Manual (printed)				Wireless Remote Control (YT-140), RGB Cable, Power Cable, User Manual (printed)		

ECONOMY SERIES			SHORT THROW SERIES		ULTRA SHORT THROW	PRO SERIES			DUAL PROJECTION SYSTEM
XJ-M151, XJ-M156	XJ-M241, XJ-M246	XJ-M251, XJ-M256	XJ-ST145	XJ-ST155	XJ-UT310WN	XJ-H1600, XJ-H1650	XJ-H1700, XJ-H1750	XJ-H2600, XJ-H2650	XJ-SK600
DLP® chip	WXGA 0.65" DLP® chip	WXGA 0.65" DLP® chip	XGA 0.7" DLP® chip	XGA 0.7" DLP® chip	WXGA DLP® chip	XGA 0.7" DLP® chip	XGA 0.7" DLP® chip	WXGA 0.65" DLP® chip	2 x WXGA 0.65" DLP® chip
LED hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid
20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours
2500	2500	3000	2500	3000	3100	3500	4000	3500	6000
Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	No
1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1	1400 : 1	1400 : 1	1400 : 1	1800 : 1
WXGA (1280x800 pixels)	WXGA (1280x800 pixels)	WXGA (1280x800 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280 x 800 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280x800 pixels)	WXGA
UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	1080p / 60hz
1.5x optical zoom (manual)	1.5x optical zoom (manual)	1.5x optical zoom (manual)	-	-	-	1.2x optical zoom (manual)	1.2x optical zoom (manual)	1.2x optical zoom (manual)	Dual 1.5x optical zoom (manual)
Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
33%	33%	33%	109%	109%	118% (60")	100%	100%	111%	83%
33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	35 dB (default)
+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 5°	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 15°
35 - 300"	35 - 300"	35 - 300"	45 - 142"	45 - 142"	50 - 100"	27 - 300"	27 - 300"	30 - 300"	50 - 300"
1.7m to 2.5m	1.7m to 2.5m	1.7m to 2.5m	0.8m	0.8m	0.13m	1.9m to 2.3m	1.9m to 2.3m	2.1m to 2.5m	1.7m to 2.5m
2.9m to 4.9m	2.9m to 4.9m	2.9m to 4.9m	1.4m	1.4m	0.40m	3.3m to 3.9m	3.3m to 3.9m	3.5m to 4.2m	2.9m to 4.9m
1.32 - 1.93 : 1	1.32 - 1.93 : 1	1.32 - 1.93 : 1	0.68 : 1	0.68 : 1	0.28 : 1	1.60 - 1.91 : 1	1.60 - 1.91 : 1	1.62 - 1.95 : 1	1.4 - 1.8 : 1
1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	1 x VGA
-	-	-	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	none
1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1,080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p - 1,080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)	1 x HDMI type A (480p-1080p)
1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	N/A
1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	N/A
Via D-Sub 15-pin	Via D-Sub 15-pin	Via D-Sub 15-pin	Via D-Sub 15-pin	Via D-Sub 15-pin	Via 2 x D-sub 15-pin	Via D-Sub 15-pin	Via D-Sub 15-pin	Via D-Sub 15 pin	Via D-Sub 15-pin
1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	2 x 3.5mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	HDMI embedded audio
RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	-
1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	2 x 3.5mm stereo mini jack, 1 x MIC	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5mm stereo mini jack	Projector speakers only
1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini Dsub
XJ-M246 only	XJ-M246 only	XJ-M256 only	Yes	Yes	Yes	XJ-H1650 only	XJ-H1750 only	XJ-H2650 only	-
1 x RJ-45 (XJ-M246 only)	1 x RJ-45 (XJ-M246 only)	1 x RJ-45 (XJ-M256 only)	1 x RJ-45	1 x RJ-45	1 x RJ-45	1 x RJ-45 (XJ-H1650 only)	1 x RJ-45 (XJ-H1750 only)	1 x RJ-45 (XJ-H2650 only)	1 x RJ-45
1 x USB type A (XJ-M246 only)	1 x USB type A (XJ-M246 only)	1 x USB type A (XJ-M256 only)	1 x USB type A	1 x USB type A	1 x USB type A	1 x USB type A (XJ-H1650 only)	1 x USB type A (XJ-H1750 only)	1 x USB type A (XJ-H2650 only)	-
Micro-USB type B, USB display/Data transfer (XJ-M246 only)	Micro-USB type B, USB display/Data transfer (XJ-M246 only)	Micro-USB type B, USB display/Data transfer (XJ-M256 only)							
Micro-USB type B, Logo transfer/Firmware update (XJ-M246 only)	Micro-USB type B, Logo transfer/Firmware update (XJ-M246 only)	Micro-USB type B, Logo transfer/Firmware update (XJ-M256 only)							
-	-	-	1 x USB type B	1 x USB type B	2 x USB type B	1 x USB type B (XJ-H1650 only)	1 x USB type B (XJ-H1750 only)	1 x USB type B (XJ-H2650 only)	-
5W	5W	5W	10W	10W	16W	10W	10W	10W	2 x 5W
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	10 secs
165W	180W	330W	330W	330W	MAX 250W	330W	350W	330W	390W (total system consumption)
135W	145W	260W	260W	260W	230W full, 185W Eco1	250W	270W	250W	N/A
0.4W	0.4W	0.4W	0.4W	0.4W	0.4W (LAN off), 4.8W (LAN on)	0.4W	0.4W	0.4W	1.2W
White	White	White	White	White	White	White	White	White	White (Black outer cage)
311 x 244 x 82	311 x 244 x 82	311 x 244 x 82	420 x 323 x 106	420 x 323 x 106	413 x 333 x 153 mm	400 x 323 x 106	400 x 323 x 106	400 x 323 x 106	346 x 305 x 373 (includes YA-S10 correction box)
3.9kg	3.9kg	3.9kg	7.1kg	7.1kg	5.7kg	7.1kg	7.1kg	7.1kg	18.3kg
Remote Control (YT-120), RGB Cable, YW-3 Wireless Adapter (USB models only), Power Cable, Carrying Bag, User Manual (printed)	Remote Control (YT-120), RGB Cable, YW-3 Wireless Adapter (USB models only), Power Cable, Carrying Bag, User Manual, CD-ROM				Remote Control (YT-140), YW-40 Wireless Adapter, RGB Cable, Power Cable, Set-up Guide, Carrying Bag, YM-80 Wall Mount	Remote Control (YT-120), RGB Cable, YW-3 Wireless Adapter (USB models only), Power Cable, Carrying Bag, User Manual, CD-ROM			Stack cabinet XJ-M250 x 2 (pre installed), Geometric correction box YA-S10 (pre installed), Remote control x 2 (projector and correction box), AC power cord x 2 (projectors), AC power cord & adaptor (correction box), RGB cable X 1, HDMI cable X 2, RS-232C cables X 2, Manual X 2 (projector & correction box), Batteries X 4 (AAA size), Setup guide, Kensington wire X 3

## Remote projector management



Crestron Roomview Express® software provides a custom configurable interface to monitor, manage and control every device in every room remotely from any computer. Use the free network management software (Crestron Roomview Express®) to automatically switch ON/OFF up to 250 projectors from a single location. The easy-to-use interface allows you to manage all the units connected to the network in one place.

- Manage up to 250 projectors at the same time (via master PC).
- Alter the projector settings using a simple web browser page including OSD menu control.
- Set up email alerts for warning messages.
- Ideal for large installations in both educational and business environments.

*Available on Signature, Short Throw, Pro series Wireless / LAN models and UST via LAN.*



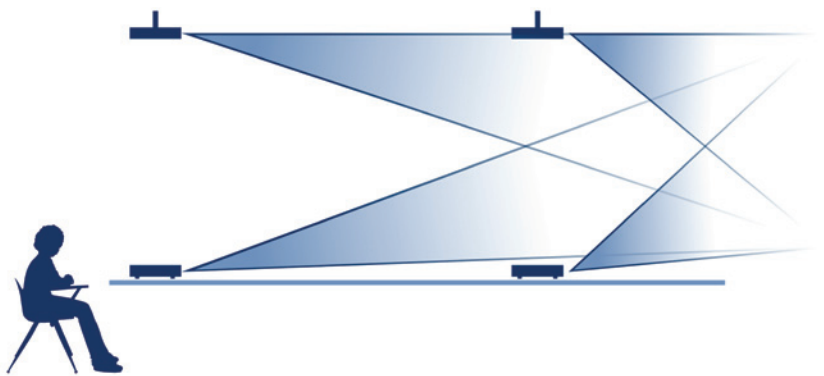
Download Crestron RoomView® Express software from:  
[www.crestron.com/getroomview](http://www.crestron.com/getroomview)



## Flexible installations

To enable flexible installs within a host of applications, Green Slim, Signature and Pro Series feature integrated zoom. This enables users to adjust the screen size projected without actually moving the projector. It is particularly useful for room upgrade programmes, where the Casio projector will be

replacing an existing unit. The optical zoom feature means that the Casio projector could directly replace the old projector – without moving the brackets – and deliver exactly the same screen size as before. This will save a significant amount of time, money and disruption.



## Dual projector system XJ-SK600

Now high brightness projection from Casio projectors can be achieved with the dual projector system.

The stack system provides up to 6,000 ANSI lumens brightness and creates and projects overlapping images onto a single screen. Ideal for larger scale installs including school halls, lecture theatres and leisure applications.

- 2 x XJ-M250 projectors
- Lamp-free technology
- Up to 6,000 ANSI lumens
- Built in control box (YA-S10)
- 5 year/ 10,000 hour warranty



## Geometric Correction Box YA-S10

The YA-S10 allows two projectors with HDMI inputs to be stacked together, not only does this offer far higher brightness, the image warping feature within the control box also allows for projection onto difficult surfaces such as curves and pillars.



# THE CASIO RANGE OF PROJECTORS



## GREEN SLIM

The Green Slim series is the perfect choice for those looking to upgrade their current projectors. An industry-leading 2x optical zoom means that a Green Slim model will replace almost any installed projector seamlessly, without having to move the existing ceiling brackets.



## SIGNATURE

The nine models in the Signature series offer a range of connectivity options, including RGB, HDMI, LAN, WLAN & USB\* and similar to the Green Slim series offers great retro-fit solutions. Selected models also offer remote fleet management capability.

*\*available on specific models.*



## SHORT THROW

Both models in the Short Throw series are easily re-fitted to existing short throw systems where projector replacement is required. Their ability to be connected to a network means that they can be monitored and controlled from a remote location, allowing users to centralise the management of their projector fleet.



## ULTRA SHORT THROW

The NEW Ultra Short Throw model offers brightness of 3,100 ANSI lumens – more than enough for even a large, bright classroom or meeting room and features WXGA resolution with XGA compatibility option. The main benefit of Ultra Short Throw projection is that it virtually eliminates shadowing on the screen allowing for more creative and engaging presentations.



## PRO SERIES

The six Pro Series models are the perfect option for those wanting to take advantage of the Laser & LED Hybrid light source whilst presenting in larger spaces. These models also offer advanced connectivity perfect for the demands of these types of installation.



## DUAL PROJECTOR SYSTEM

Now high brightness utilising the benefits of Laser & LED Hybrid technology can be achieved with the dual projector system. The stack system provides up to 6,000 ANSI lumens brightness and creates projects overlapping images onto a single screen. Ideal for larger scale installs including school halls, lecture theatres and leisure applications.

For more information about the Casio projector range visit **[casio.co.uk/projectors](http://casio.co.uk/projectors)** or call **020 8450 9131**